

100528-10601

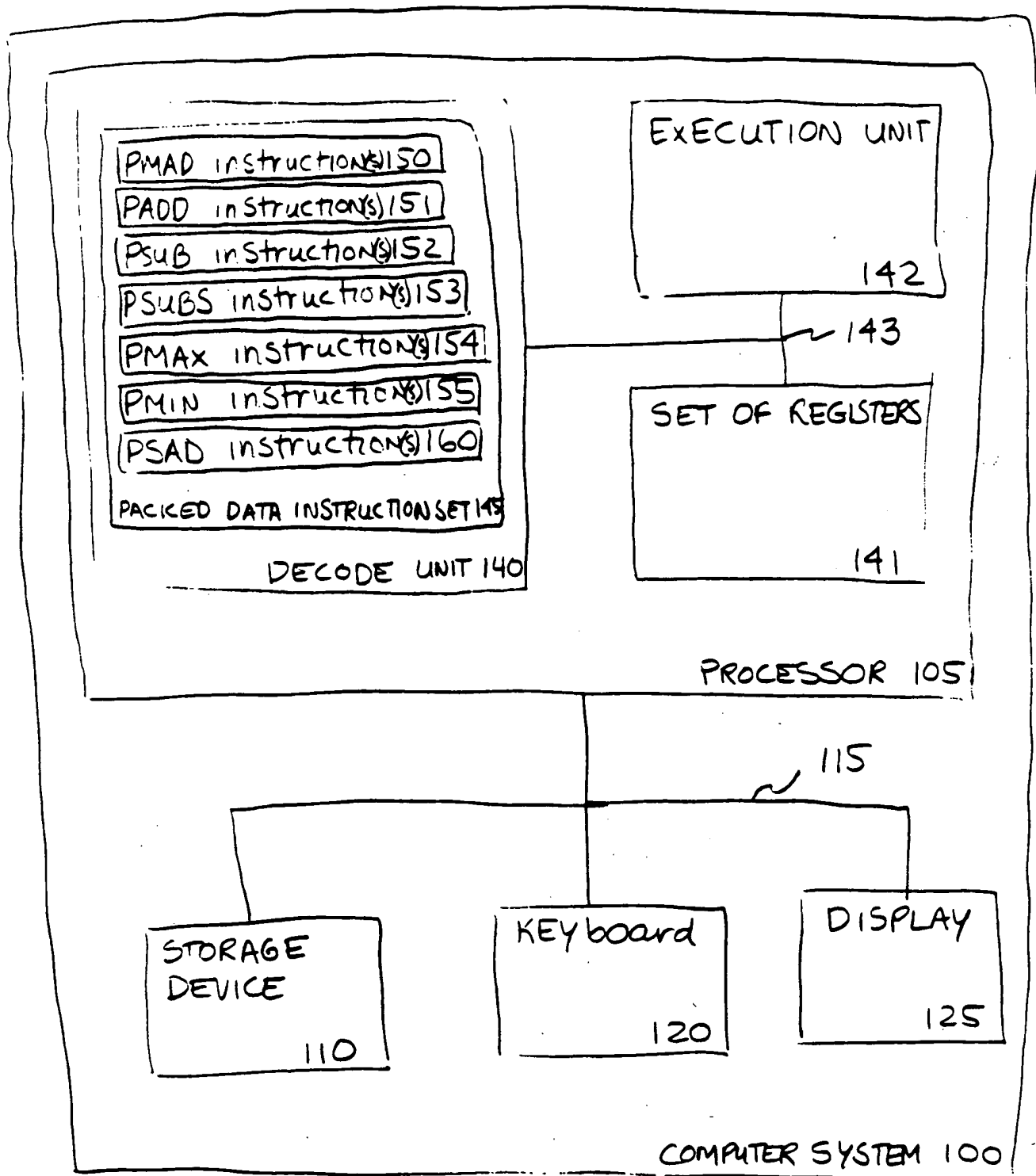


FIG. 1

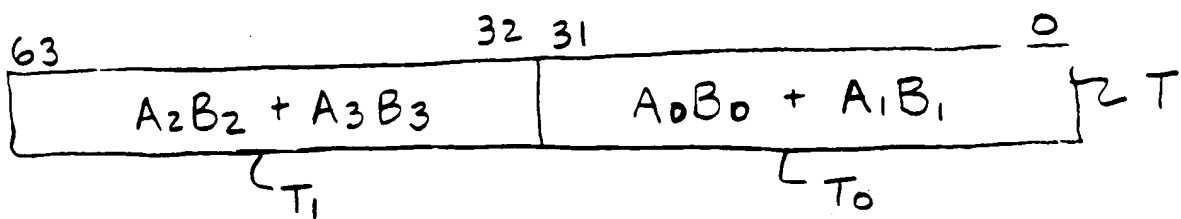
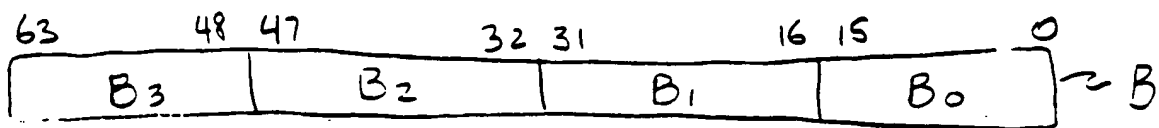
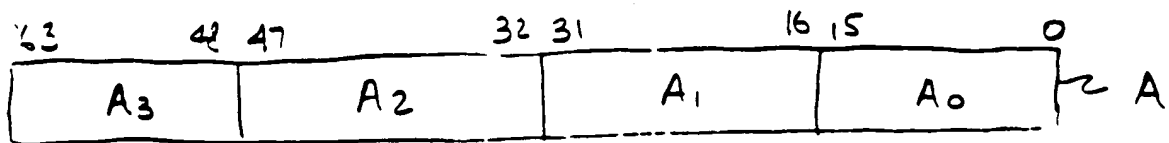


FIG. 2

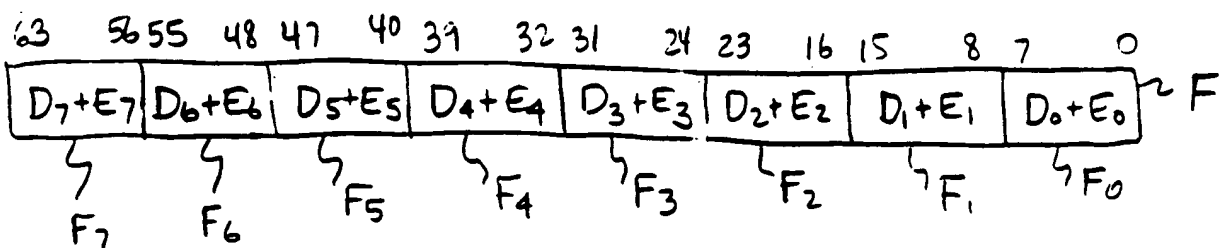
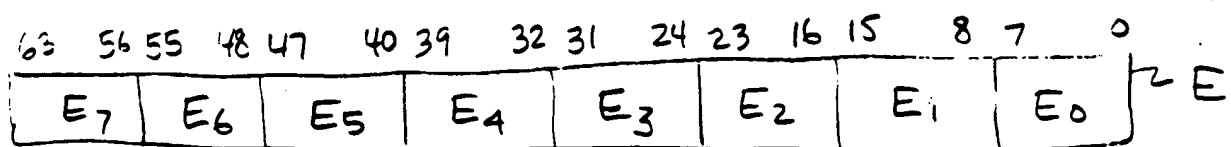
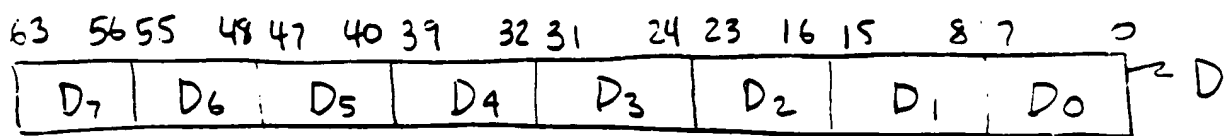


FIG. 3

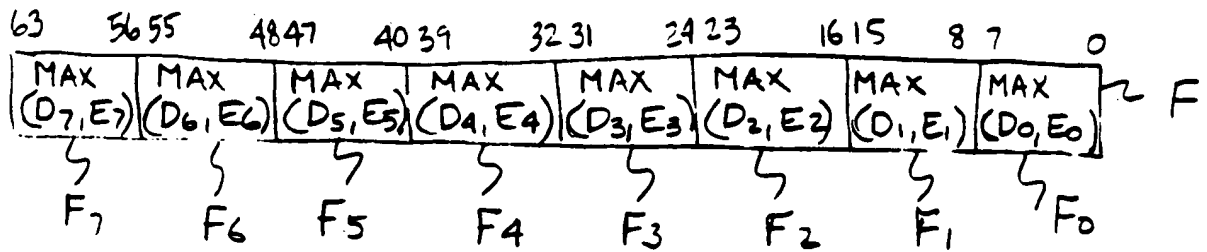
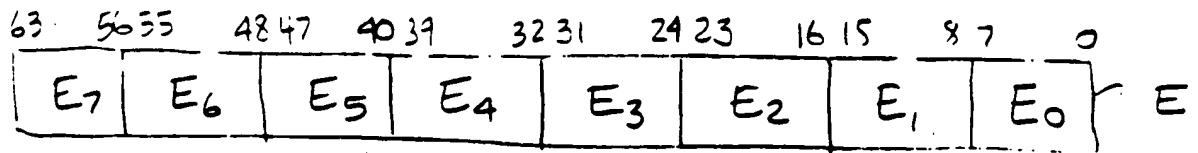
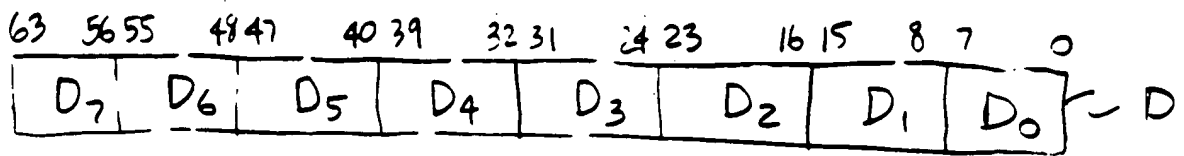


FIG. 4

FOUO "825000"

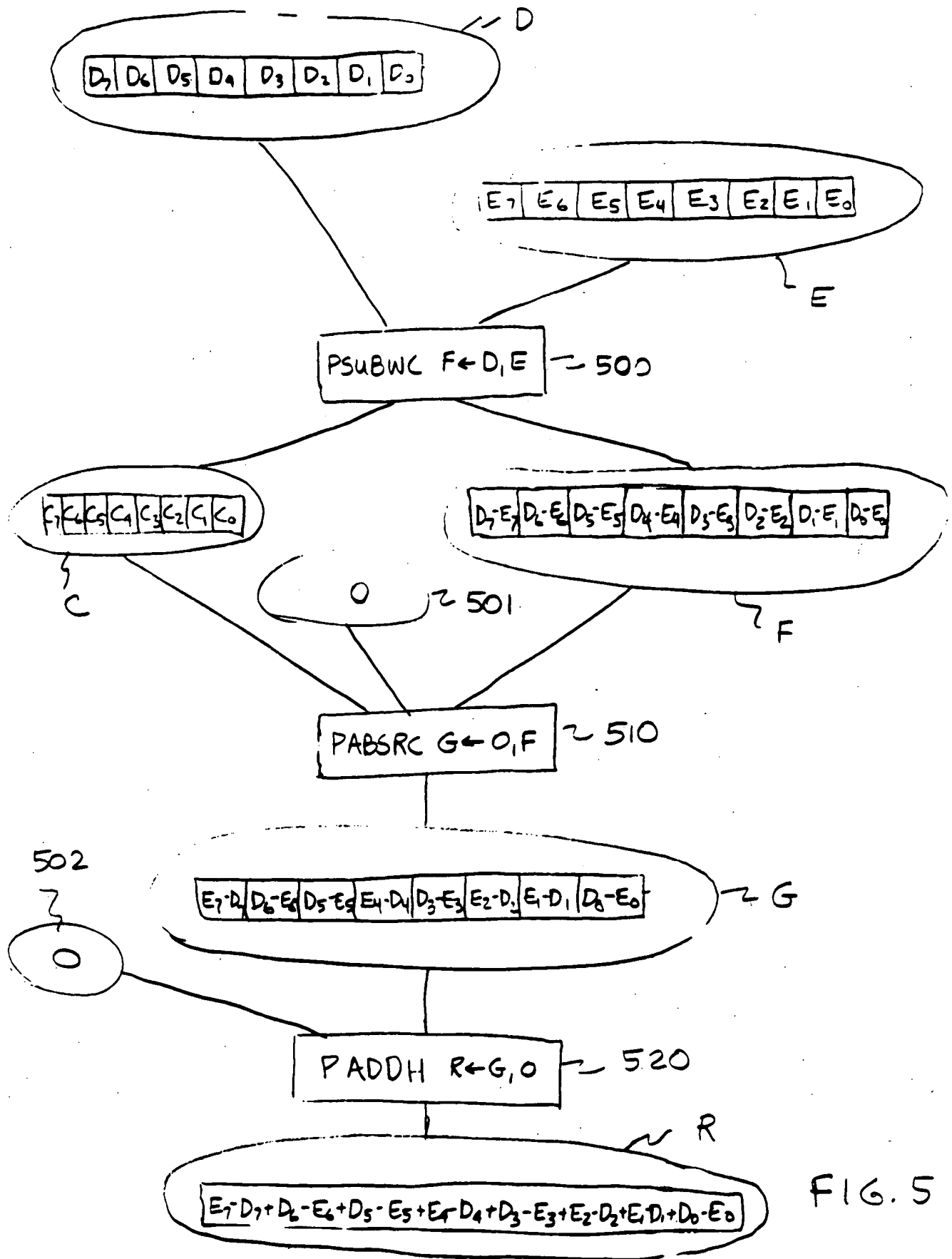


FIG. 5

1005722-10501

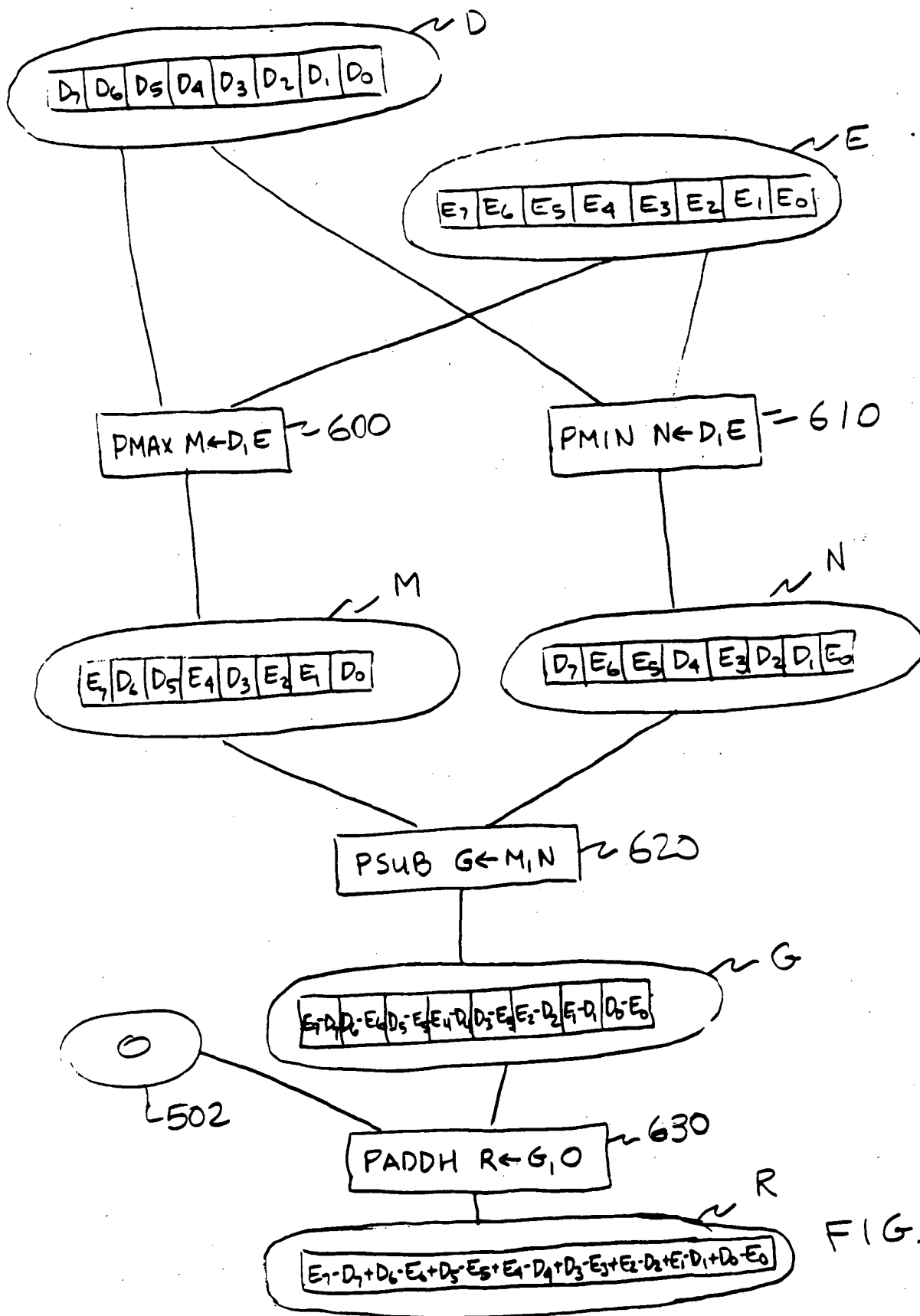


FIG. 6

FIG. 7

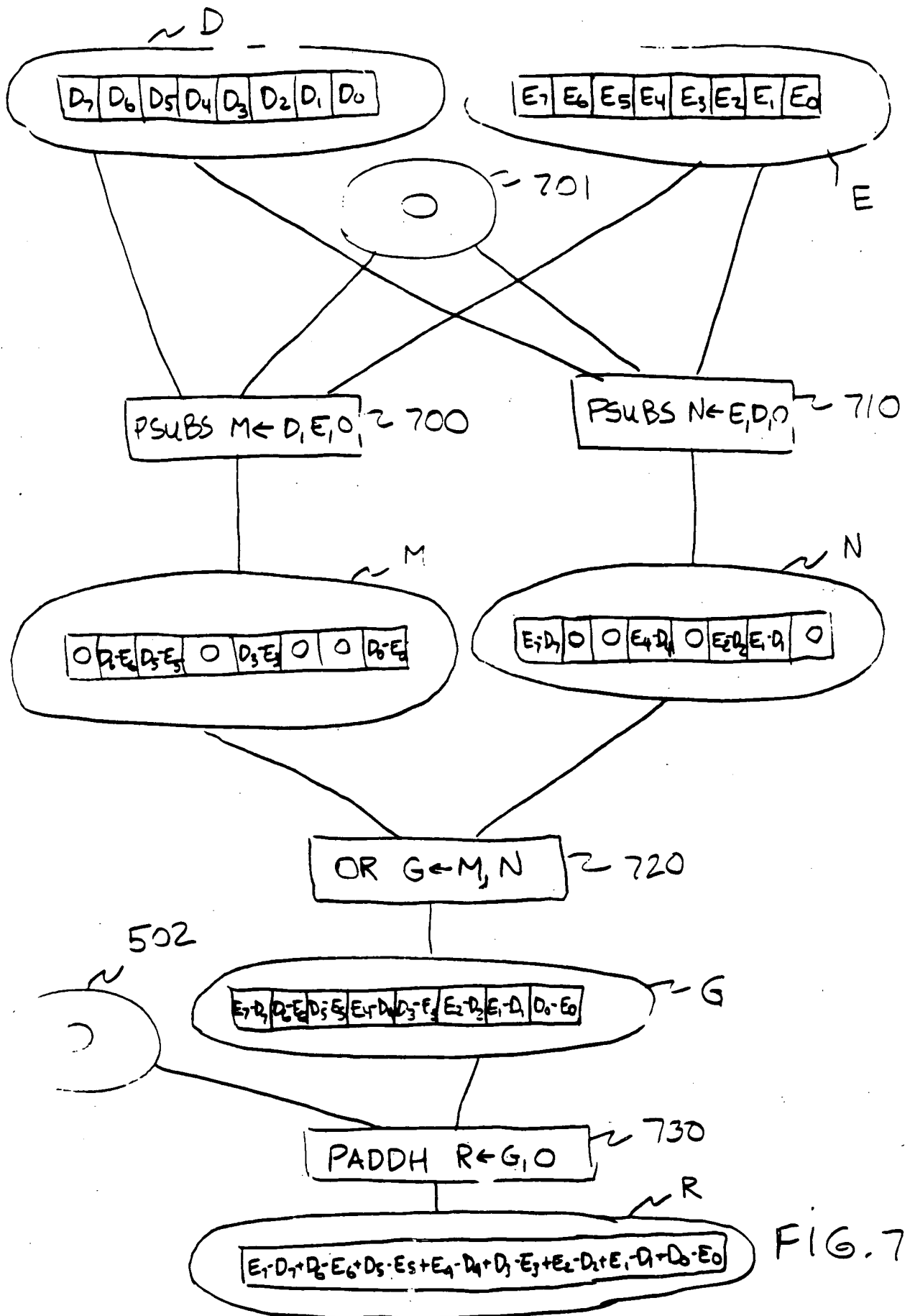


FIG. 7

10005728-10501

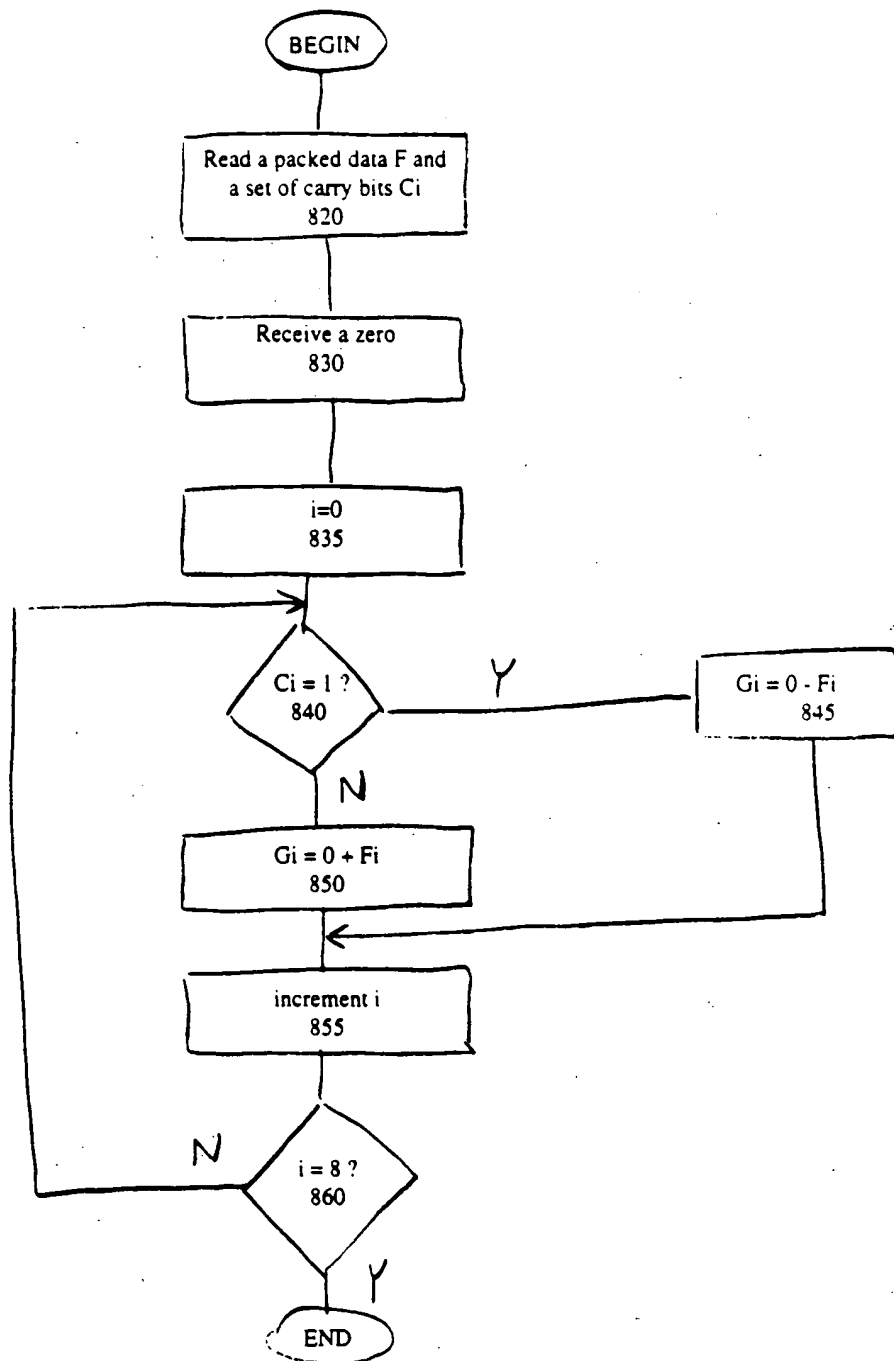


FIG. 8

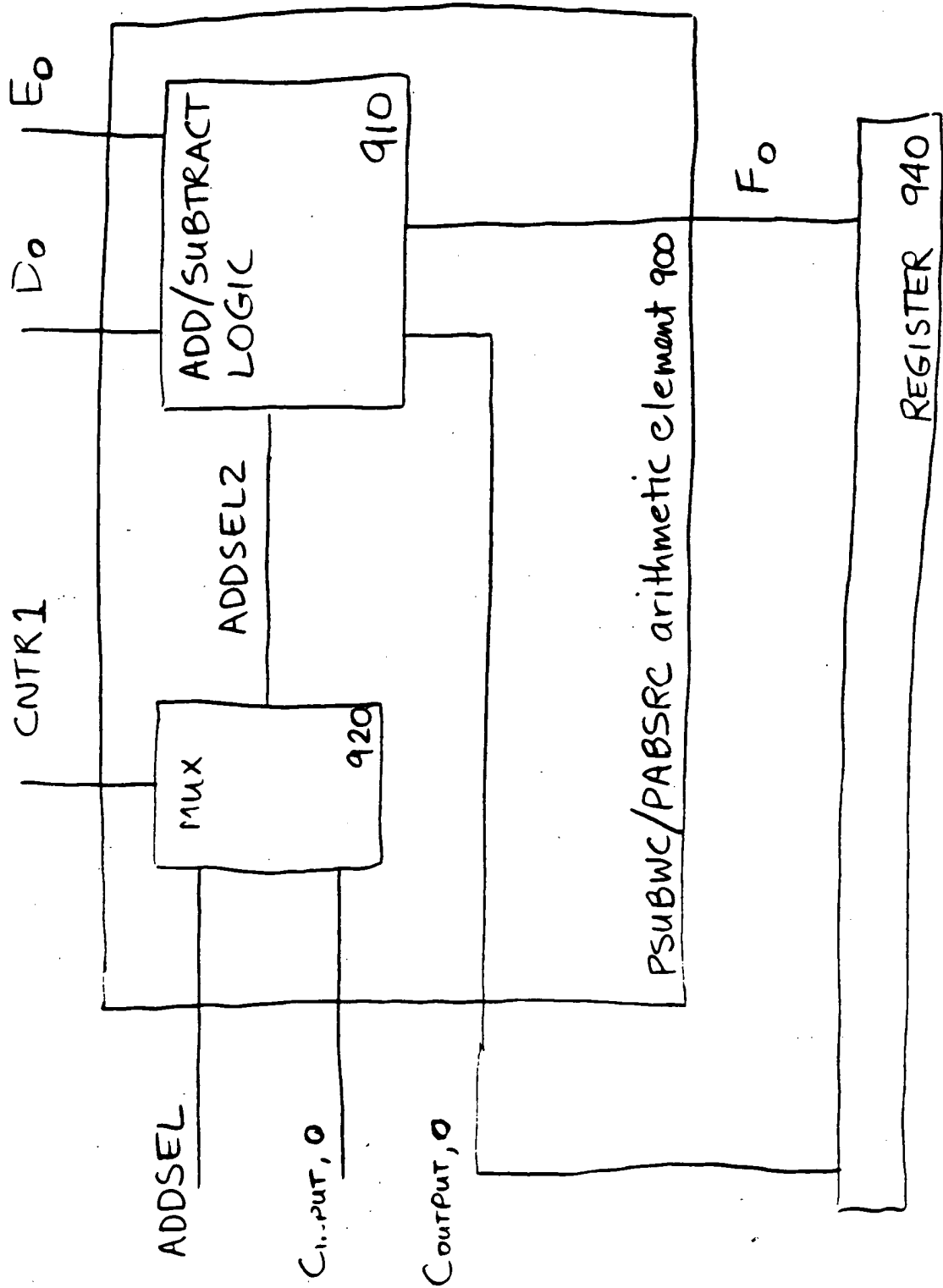


FIG. 9

FOOT" 82/500T

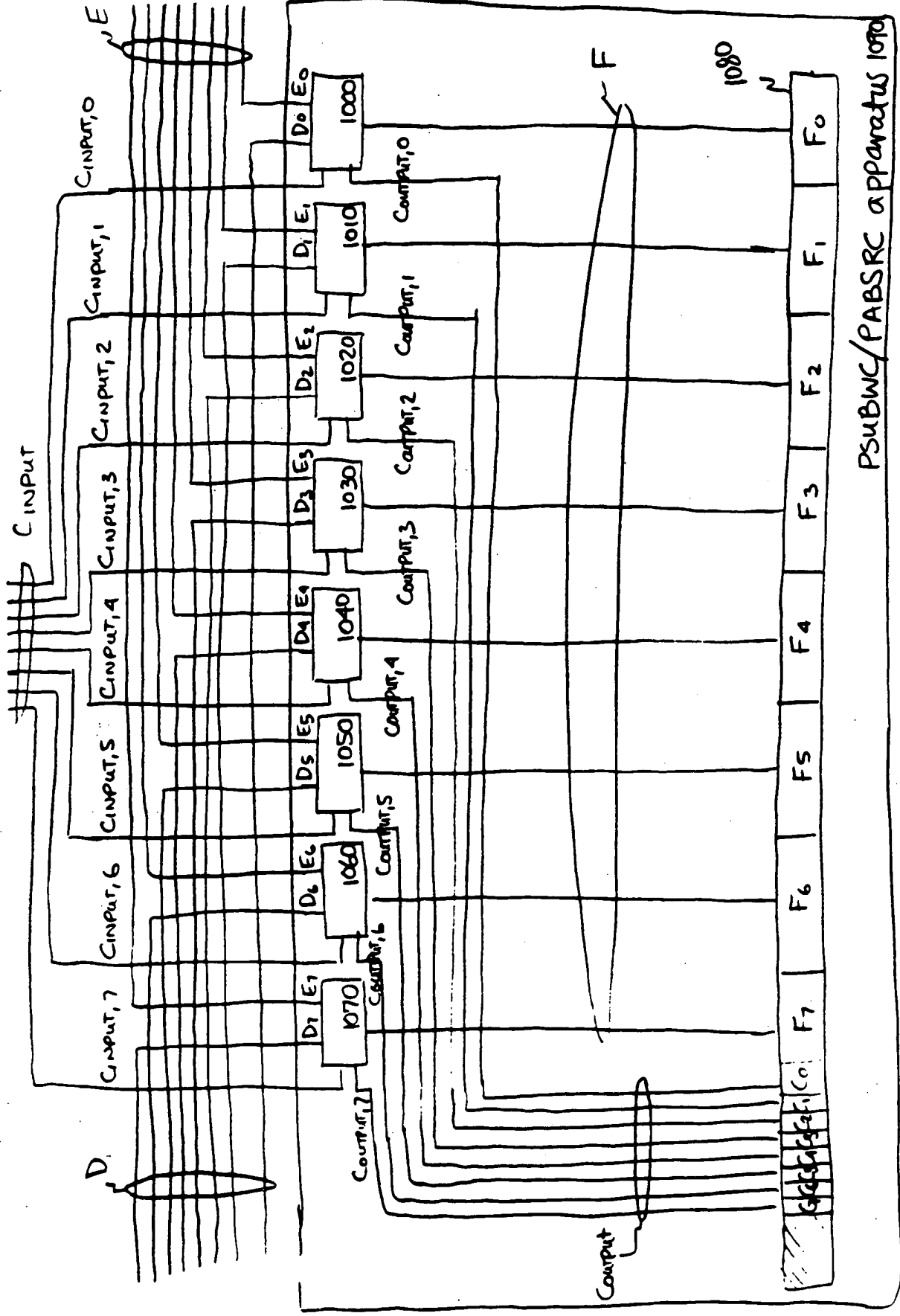


FIG. 10

```
graph TD
    1140[~1140] --- 1100
    1141[~1141] --- 1100
    1100["16x16 MULTIPLIERS  
using PADDH partial  
product selectors  
1100"]
    1100 -- "~1102" --> 1120
    1100 -- "~1101" --> 1110
    1120["CSA tree  
WITH CLA  
1120"]
    1110["CSA tree  
WITH CLA  
1110"]
    1120 -- "~1104" --> 1130
    1110 -- "~1103" --> 1130
    CNTR2[CNTR2] --- 1130
    1130["SHIFTER  
1130"]
    1130 -- "~1105" --> 1150
    subgraph 1150 ["PADDH apparatus 1150"]
        1100
        1120
        1110
        1130
    end
```

FIG. 11

1220

A17 A16 A15 A14 A13 A12 A11 A10 A09 A08 A07 A06 A05 A04 A03 A02 A01 A00 ~1201

B17 B16 B15 B14 B13 B12 B11 B10 B09 B08 B07 B06 B05 B04 B03 B02 B01 B00 ~1202

C17 C16 C15 C14 C13 C12 C11 C10 C09 C08 C07 C06 C05 C04 C03 C02 C01 C00 ~1203

D17 D16 D15 D14 D13 D12 D11 D10 D09 D08 D07 D06 D05 D04 D03 D02 D01 D00 ~1204

E17 E16 E15 E14 E13 E12 E11 E10 E09 E08 E07 E06 E05 E04 E03 E02 E01 E00 ~1205

F17 F16 F15 F14 F13 F12 F11 F10 F09 F08 F07 F06 F05 F04 F03 F02 F01 F00 ~1206

G17 G16 G15 G14 G13 G12 G11 G10 G09 G08 G07 G06 G05 G04 G03 G02 G01 G00 ~1207

H17 H16 H15 H14 H13 H12 H11 H10 H09 H08 H07 H06 H05 H04 H03 H02 H01 H00 ~1208

I17 I16 I15 I14 I13 I12 I11 I10 I09 I08 I07 I06 I05 I04 I03 I02 I01 I00 ~1211

J17 J16 J15 J14 J13 J12 J11 J10 J09 J08 J07 J06 J05 J04 J03 J02 J01 J00 ~1212

K17 K16 K15 K14 K13 K12 K11 K10 K09 K08 K07 K06 K05 K04 K03 K02 K01 K00 ~1213

L17 L16 L15 L14 L13 L12 L11 L10 L09 L08 L07 L06 L05 L04 L03 L02 L01 L00 ~1214

M17 M16 M15 M14 M13 M12 M11 M10 M09 M08 M07 M06 M05 M04 M03 M02 M01 M00 ~1215

N17 N16 N15 N14 N13 N12 N11 N10 N09 N08 N07 N06 N05 N04 N03 N02 N01 N00 ~1216

O17 O16 O15 O14 O13 O12 O11 O10 O09 O08 O07 O06 O05 O04 O03 O02 O01 O00 ~1217

P17 P16 P15 P14 P13 P12 P11 P10 P09 P08 P07 P06 P05 P04 P03 P02 P01 P00 ~1218

~1222

Q11 Q10 Q09 Q08 Q07 Q06 Q05 Q04 Q03 Q02 Q01 Q00 ~1200

FIG. 12

10005732-10501

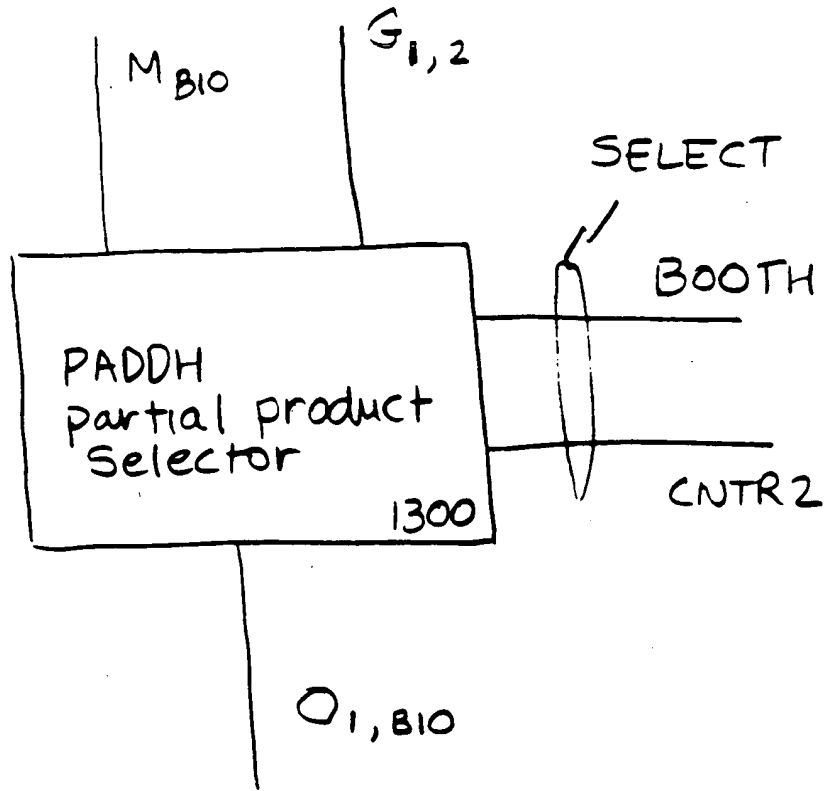


FIG. 13